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## Office Memorandum . United states government

то :	The Files DATE: 29 November 1957	
FROM :	DOC 29 REV DATE 29/4/80 BY 37169  GRIG COMP 33 OPI 56 TYPE 2  GRIG GLASS 5 PAGES REV GLASS C  JUST 22 NEXT REV 2010 AUTK: HR 10-2	25X′
SUBJECT:	Trip Report RD-76, Task Order F, Miniature Data Recorder	
	l. was visited on 20 November  1957 by the writer and for the purpose of monitoring  progress on the subject contract. The project was discussed with	25X1 25X1 25X1
	reported that the sub-contractor,  has found a magnetic recording head of which would provide the necessary 10 kc response on the data channels at the slow, standard	25X1
	speed of 1 7/8 ips. No details were available on the construction of the head or the source of supply. After considerable research and test of AC motors, it appears that is now eyeing the prospect of employing a miniature DC motor. The DC motor would supply a	25X1 25X1
	higher torque and require less space than the AC motors tested.  has been advised of the noise and speed regulation with temperature problems normally associated with this motive source.  The tape reel arrangement has not been decided, however, the system of overlapping reels appears most workable. There is some question whether such a reel mounting arrangement can be accomplished using	25 <b>X</b> 1
	identically shaped supply and take-up reels as called for in the specification. Mentioned that he would investigate the feasibility of designing identical reels further before requesting a change in specifications. The contractor also inquired as to whether there would be any objection to making all connections through one plug at the front of the unit with all inter-connecting cables diverging at the back of the plug. The only immediate objection to this was the possibility of increasing noise, since audio frequencies plusike reference tone signals would be adjacent to data channel signal leads. It is possible, however, that proper shielding would	25X1
	negate such interference informed that inter-connecting cables would not be required as deliverable items.	25 <b>X</b> 1
	3. who joined this meeting quite late, asked for clarification of what pulse information was expected from the recorded data. He stated that from a prior meeting he had the opinion that the mere presence of a pulse and its repetition rate	25X1
	would be satisfactory. If elt that this would be the minimum information acceptable, however, it should be the goal of the project to preserve as much pulse width and amplitude information as possible. The writer informed that the latter opinion was correct.	25 <b>X</b> ′
•	-	25 <b>X</b> 1

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